

Based on the above reaction, when the glucose of the oleuropein, glycoside form, is removed by the natural enzyme activity and replaced by an additional hydroxy group, the trihydroxy oleurope(ein), aglycone form, has increased solubility in oil due to the loss of the glucose, and increased antioxidant potential due to the relative positions of the three hydroxy groups.

FIGURE 1

Olive Water Treatment: Phase I

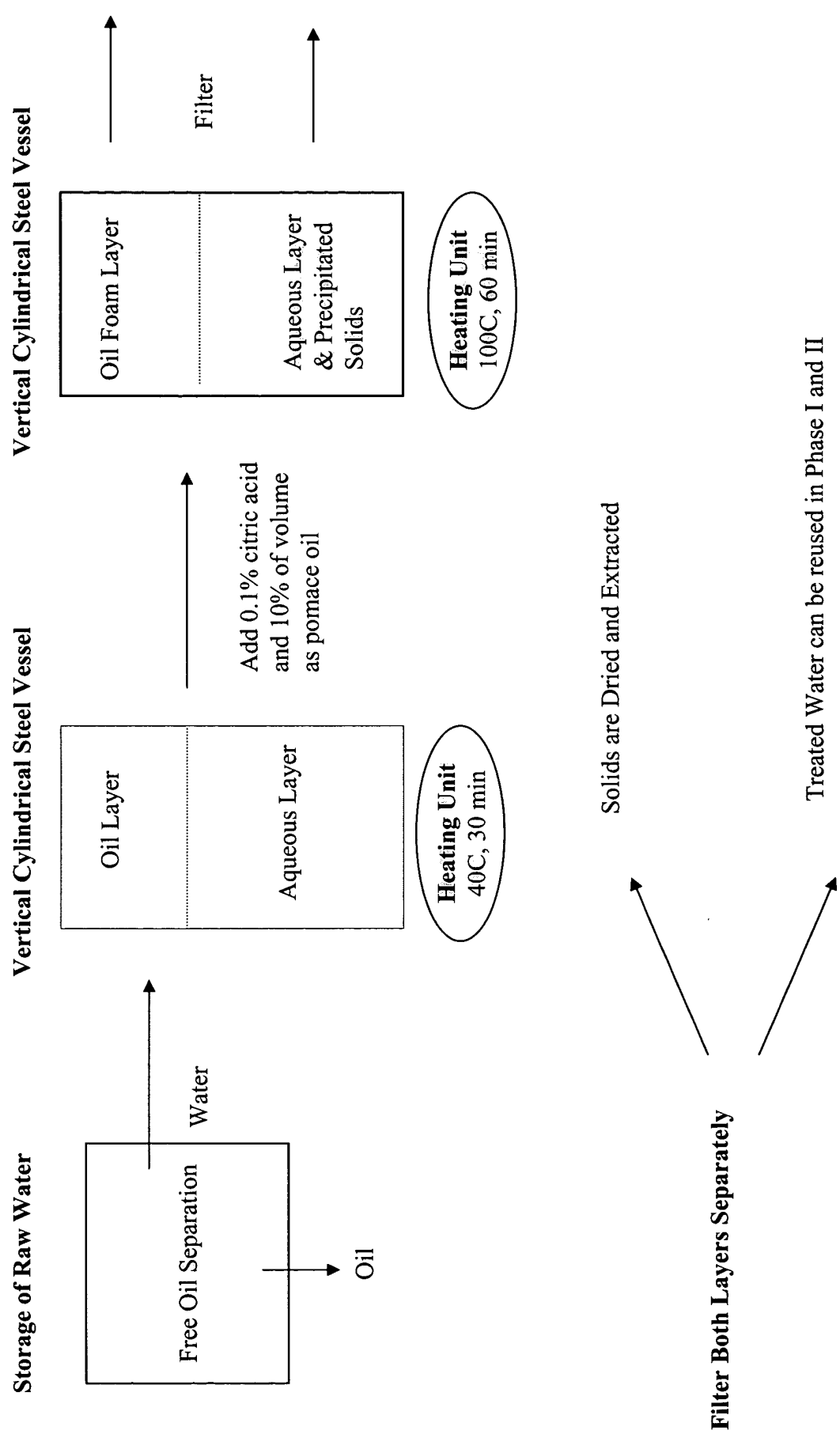


FIGURE 2A

Phase II

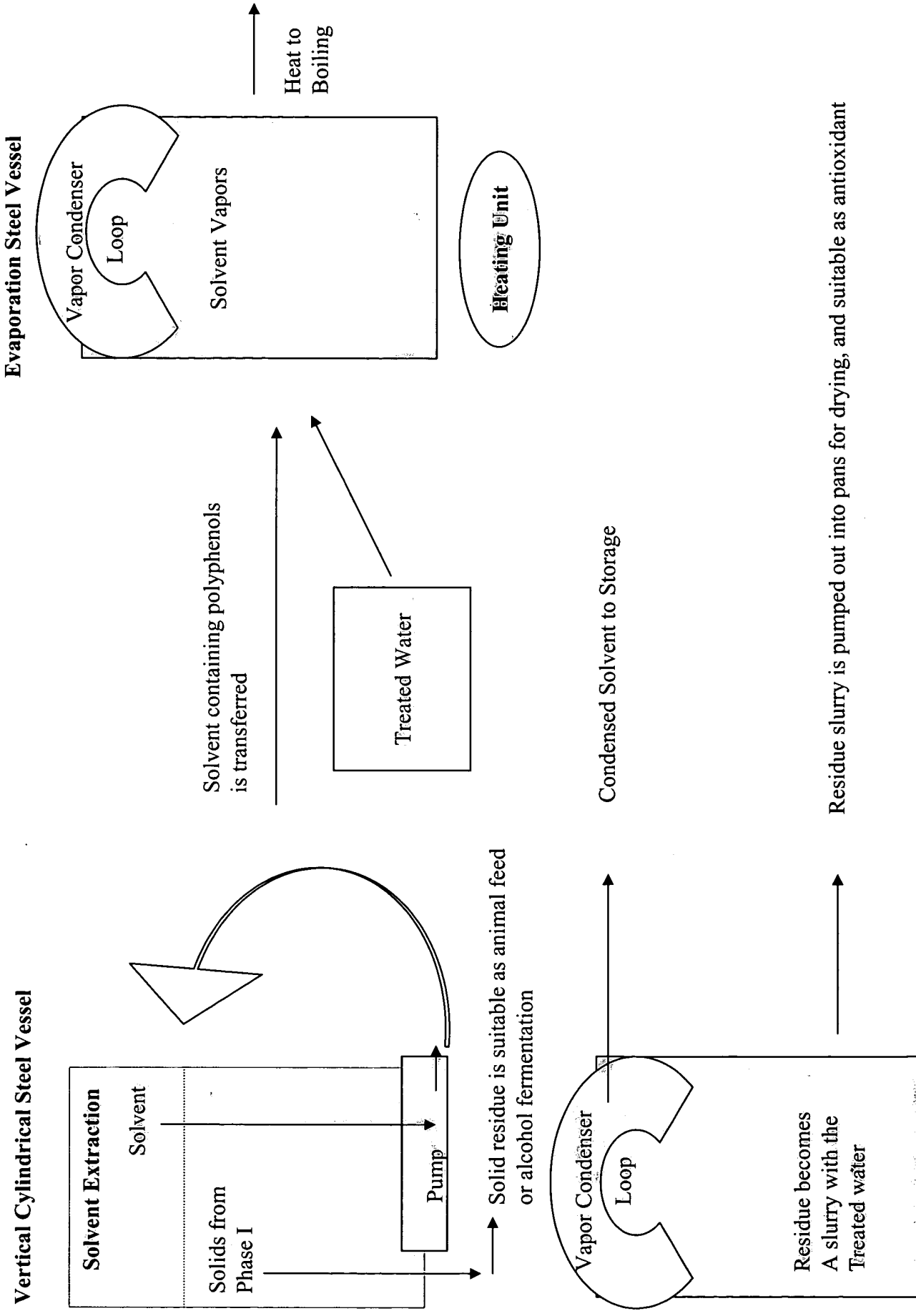


FIGURE 2B